

MANUFACTURE OF POLYTETRAFLUOROETHYLENE POROUS MATERIAL

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Abstract of JP61057328

PURPOSE: To obtain a porous material having a uniform and fine hole, by a method wherein polytetrafluoroethylene containing a predetermined lubricant is molded under shearing terms, monoaxial or biaxial orientation of which is performed at the temperature through which the lubricant does not volatilize and heating and calcination are applied to the same while the same is being kept under an orientation state. **CONSTITUTION:** After polytetrafluoroethylene containing a liquid lubricant and having viscosity of about 10^{1-6} poise has been molded by a molding method under shearing terms, monoaxial or biaxial orientation is applied to the same at the temperature through which a liquid lubricant does not volatilize. Then heating and calcination are applied to the same at the temperature of about 300-400 deg.C while the same is being kept under the orientation state. In addition to the above, the molding is performed under the shearing terms based on extrusion or rolling and a polymer solution is used for a liquid lubricant. With this construction, a desired porous material which possesses fined and uniform thin holes and, moreover, is superior in mechanical strength.

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